



## PATENT ABSTRACTS OF JAPAN

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application: **11. 10 . 90**(51)Int. Cl **C03B 5/187**(21)Application number: **63270850**(22)Date of filing: **28 . 10 . 88**(71)Applicant: **HOYA CORP**(72)Inventor: **MORIGUCHI AKINOBU  
GOTO MASAYUKI****(54)METHOD FOR STIRRING AND  
HOMOGENIZATION OF MOLTEN GLASS  
AND APPARATUS THEREFOR****(57)Abstract:**

**PURPOSE:** To highly homogenize molten glass throughout the surface and inner part by rotating a crank-type stirring rod on its own axis while revolving the rod round the other axis.

**CONSTITUTION:** Molten glass 17 in a melting tank 21 is stirred by the following means. A main shaft 6 is rotated via gears 4, 5 by driving a driving part 2. The ceramic rotary arm 10 attached to the lower end of the main shaft 6 is rotated by the rotation of the shaft to revolve a crank-type stirring shaft 12 round the main shaft 6 via a bearing 1. A subsidiary shaft 9 is rotated via gears 7, 8 by operating a driving part 3. The lower part 12c of the crank is rotated on the center axis 18 of the upper part 12a of the crank while revolving the upper part 12a of the crank round the center axis 10 of the main shaft 6

by the simultaneous rotation of the main shaft 8 and the subsidiary shaft 9. Accordingly, the surface of molten glass and inside of the tank are completely stirred to obtain a homogeneous glass.

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